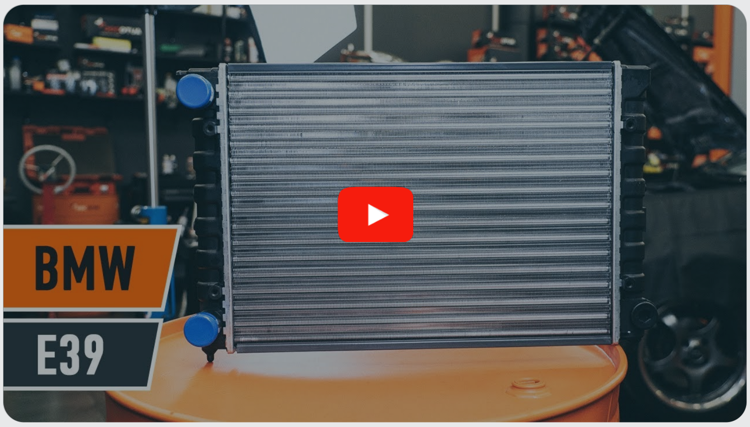
AUTODOC CLUB

How to change engine radiator on **BMW E39 touring** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
BMW 7 (E38) 730d 2.9, BMW 5 Saloon (E39) 530d 3.0, BMW 5 Touring (E39) 530d 3.0, BMW 7 (E38) 740d 3.9, BMW 5 Saloon (E39) 520d 2.0, BMW 5 Touring (E39) 520d 2.0, BMW 5 Saloon (E39) 525d 2.5, BMW 5 Touring (E39) 525d 2.5

The steps may slightly vary depending on the car design.

REPLACEMENT: ENGINE RADIATOR – BMW E39 TOURING. TOOLS YOU MIGHT NEED:



- All-purpose cleaning spray
- Torque wrench
- Combination spanner #32
- Drive socket # 8
- HEX bit No.H5
- Ratchet wrench
- Flat screwdriver
- Clip removal tool
- Funnel
- Fluid container
- Crow bar
- Fender cover

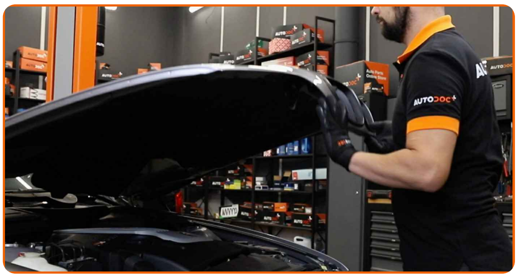
BUY TOOLS

Replacement: engine radiator – BMW E39 touring. AUTODOC experts recommend:

- Follow the terms, recommendations and requirements of the part operation provided by the manufacturer.
- Check the coolant condition and replace it if necessary.
- Please note: all work on the car – BMW E39 touring – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the hood.



2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



3 Unscrew the coolant reservoir cap.



4 Remove the fan shroud clips. Use a clip removal tool.



5 Unscrew the cooling fan fastener. Use a combination spanner #32 (2 pieces).



6 Remove the fan shroud. Remove the cooling fan.



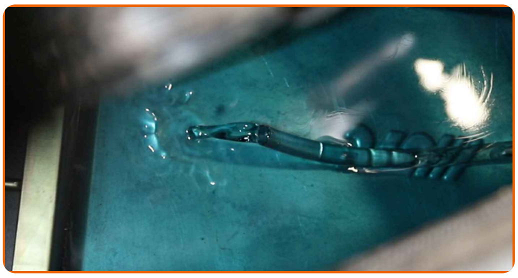
7 Prepare a container for fluids.



8 Open the coolant drain tap.



9 Drain the coolant from the engine.



Replacement: engine radiator – BMW E39 touring. Tip:

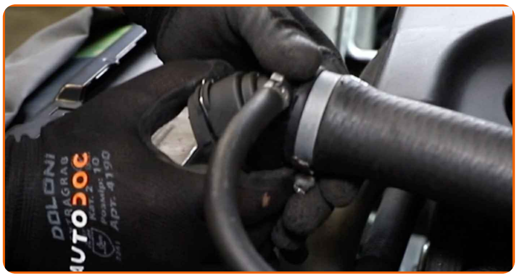
- Caution! The coolant can be very hot.
- Wear gloves to prevent contact with hot liquid.
- All work should be done with the engine stopped.
- Wait until the coolant has completely flowed out of the drain hole.

10 Close the coolant drain tap.

11 Detach the clamp of the upper coolant hose. Use a crowbar.



12 Detach the upper coolant hose.

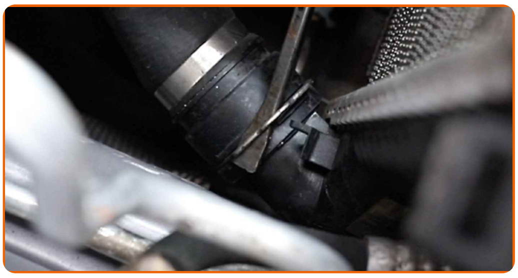


Replacement: engine radiator – BMW E39 touring. Tip from AUTODOC experts:

- Caution! Coolant may leak from radiator openings.

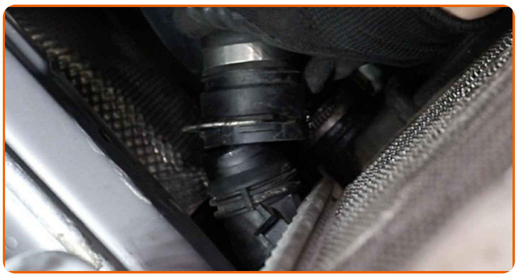
13

Detach the clamp of the lower coolant pipe. Use a crowbar.



14

Detach the lower coolant pipe.



Replacement: engine radiator – BMW E39 touring. AUTODOC recommends:

- Caution! Coolant may leak from radiator openings.

15

Unscrew the radiator fasteners. Use a drive socket #8. Use a ratchet wrench.



16 Remove the radiator.



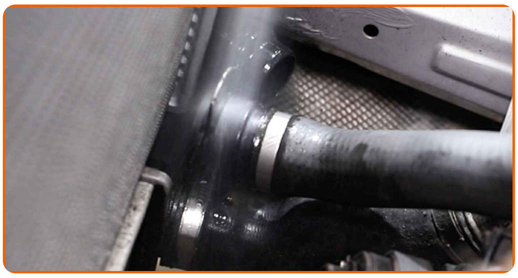
17 Install the new radiator.



18 Screw in the radiator fasteners. Use a drive socket #8. Use a ratchet wrench.



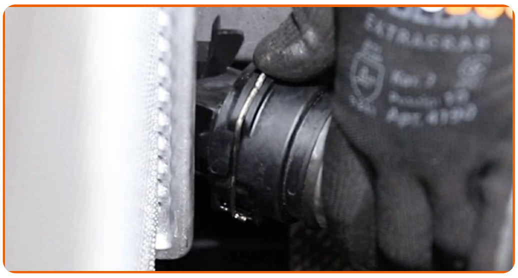
19 Clean the coolant hose. Use all-purpose cleaning spray.



20 Attach the lower coolant pipe.



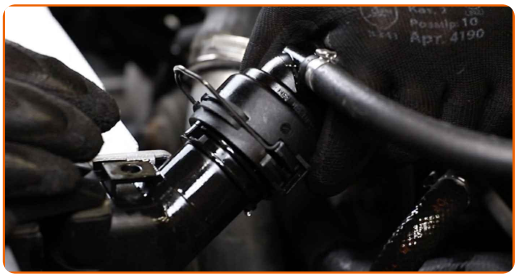
21 Attach the clamp of the lower coolant pipe.



22 Clean the coolant hose. Use all-purpose cleaning spray.



23 Attach the upper coolant hose.



24 Attach the clamp of the upper coolant hose.



25 Install the cooling fan. Install the fan shroud.



26

Tighten the cooling fan fastener. Use a combination spanner #32 (2 pieces). Use a torque wrench. Tighten it to 33 Nm torque.



27

Install the fan shroud clips.



28

Unscrew the engine cover fastener. Use HEX No.H5. Use a ratchet wrench.



29

Remove the engine cover.



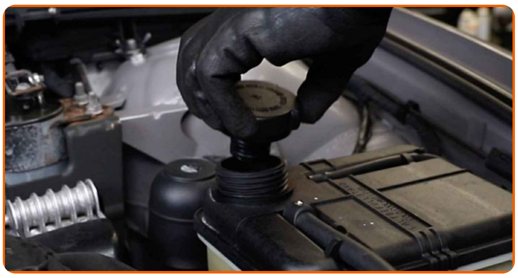
AUTODOC recommends:

- Replacement: engine radiator – BMW E39 touring. Do not use excessive force when removing the part as this may damage it.

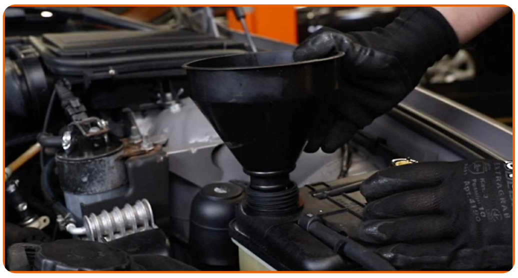
30 Open the coolant system bleed screw. Use a flat screwdriver.



31 Remove the coolant reservoir cap.



32 Insert the funnel.



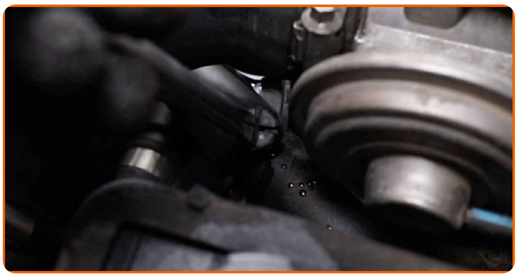
33 Pour coolant in the coolant reservoir.



Replacement: engine radiator – BMW E39 touring. Tip:

- Only use the coolant recommended by the manufacturer.
- The coolant level should be at the MAX mark.
- Wait until the air goes out of the system.

34 Close the coolant system bleed screw. Use a flat screwdriver.



35 Run the engine for a few minutes. This should be done in order to remove residual air from the cooling system and to check if the components are operating correctly.

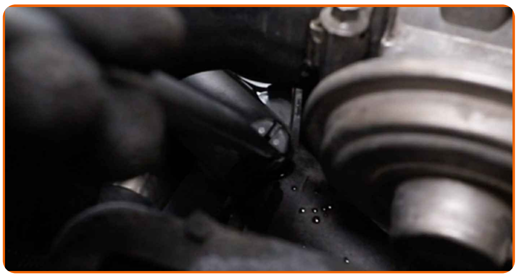


36 Shut off the engine.

37 Check the coolant level. If necessary, top up to the required level.



38 Open the coolant system bleed screw. Use a flat screwdriver.



Replacement: engine radiator – BMW E39 touring. AUTODOC recommends:

- This should be done in order to remove residual air from the cooling system and to check if the components are operating correctly.

39 Close the coolant system bleed screw. Use a flat screwdriver.

40 Install the coolant reservoir cap.

41 Screw on the coolant reservoir cap.



42 Install the engine cover and secure it.



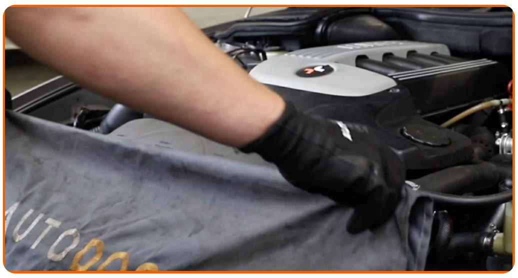
AUTODOC recommends:

- Replacement: engine radiator – BMW E39 touring. To avoid damaging the part during installation, do not use excessive force.

43 Screw in the engine cover fasteners. Use HEX No.H5. Use a ratchet wrench.



44 Remove the fender protection cover.



45 Close the hood.

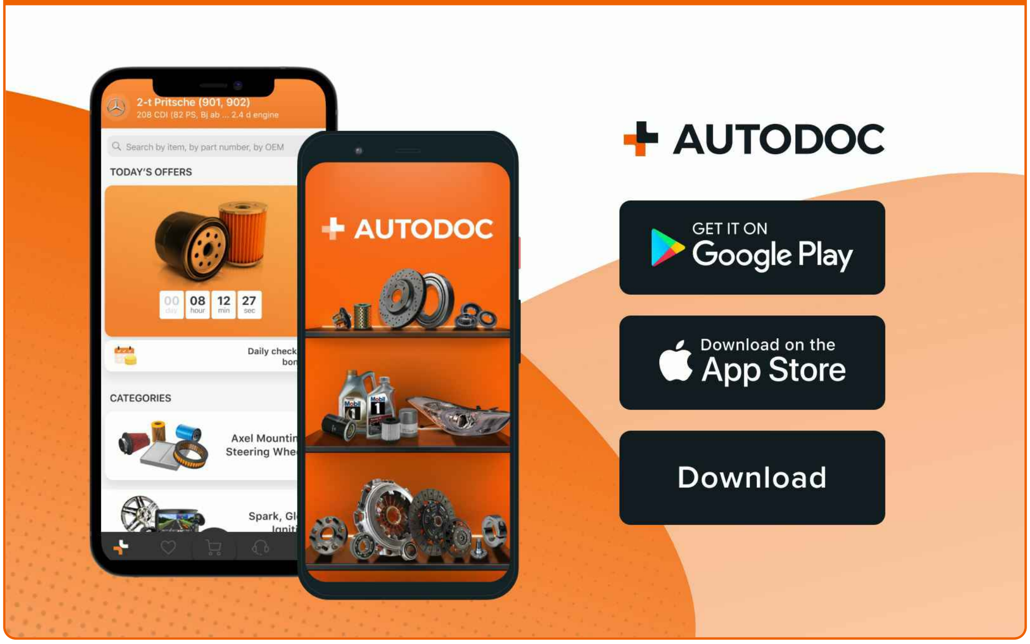


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